

**MINNESOTA WEST COMMUNITY & TECHNICAL
COLLEGE
COURSE OUTLINE**

DEPT. SURG

COURSE NUMBER: 1150

NUMBER OF CREDITS: 6

Lecture: 4 Lab: 2 OJT 0

Course Title:

Operating Room Procedures I

Catalog Description:

Operating Room Procedures I enables students to understand the various types of surgical procedures. Students will relate the knowledge learned in previous theory courses to specific surgical procedures. Students will study diagnostic procedures and surgical cases to include General Surgery (gastrointestinal, hernia repairs, breast surgery, thyroid & parathyroid, liver & biliary tract), OBGYN, Ophthalmic, Otorhinolaryngologic, Oral & Maxillofacial, and Plastic & Reconstructive surgeries. The areas of anatomy, diagnostic testing, patient positioning, instrumentation, equipment and supplies necessary to complete a surgical procedure and the actual sequence of the procedure will be analyzed. In the Laboratory setting, students will develop fundamental operating room (OR) skills, to identify instruments and to prepare necessary supplies for surgical case management. Included will be a basic knowledge of electricity, physics and robotics. Emphases will be placed on demonstrating the principles of aseptic techniques as they apply skills inherent in the role of the surgical technologist. The students will observe, practice and demonstrate skills.

Prerequisites or Necessary Entry Skills/Knowledge:

SURG 1110 and SURG 1130

FULFILLS MN TRANSFER CURRICULUM AREA(S) (*Leave blank if not applicable*)

- Goal 1: Communication: By meeting the following competencies:
- Goal 2: Critical Thinking: By meeting the following competencies:
- Goal 3: Natural Sciences: By meeting the following competencies:
- Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:
- Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:
- Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
- Goal 7: Human Diversity: By meeting the following competencies:
- Goal 8: Global Perspective: By meeting the following competencies:
- Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:

Goal 10: People and the Environment: By meeting the following competencies:

Topics to be Covered
Instrumentation,
Equipment & supplies
Exposure
Incisions
Surgical dressings
Tissue approximation
Preoperative diagnosis & diagnostics
Sequencing and anticipation
Surgical wound closure & classification
Hemostasis & blood replacement
Patient positioning and positioning devices
Creation and maintenance of the sterile field
Basic case preparation and selection
Identify and prepare various surgical supplies and equipment
Urinary catheterizations and drains
Thermoregulation
Asepsis & sterile technical
Identify and label medications/solutions on back table
Preanesthesia skills
Selection of Mayo stand instruments
Setting up back table, taking supplies, and medications/solutions
Demonstrate count protocol
Skin preparation
Fire awareness
Identify, prepare, and pass instruments including loading suture right & left handed
Specimen care, dressings, drains and postanesthesia care
Minimally invasive surgery

Student Learning Outcomes.
Discuss and demonstrate knowledge and sequence of various surgical procedures.
Discuss and demonstrate knowledge of correct positioning of patient for different surgical procedures.
Identify instruments that will be used for different surgical procedures and demonstrate care, handling, and assembly of instruments.
Identify which instrument sets and supplies will be used for different surgical procedures and which instruments and supplies will be placed on the mayo stand.
Identify members of the surgical team and their roles and the importance of communication between the OR and other facility departments.
Discuss the steps taken at the beginning of a surgical procedure including the "Time Out".
Discuss the different incisions and which incision is best for the different surgical procedures.

Discuss and understand the different wound closures and classifications and identify different surgical dressings.
Discuss the basic concepts related to Robotics and Minimal Invasive Surgery.
Determine safety concerns related to electrical equipment.
Understand the different processes for hemostasis and blood replacement
Demonstrate preparation of back table and Mayo stand.
Describe the steps and rationales for surgical skin preparation and fire safety.
Discuss the types of drapes available and the principles of draping and will demonstrate their application including draping of a C-Arm.
Demonstrate the procedures for counting instruments, sponges, needles and other items on the sterile field. Know the difference between a soft count and full count.
Identify and select Mayo stand instruments.
Demonstrate initial steps for starting a surgical procedure and understand and demonstrate helping during preanesthesia sequence.
Describe the procedure for specimen labeling and handing off to the circulator.
Identify medications and solutions to receive onto the back table. Demonstrate receiving, labeling, preparing medications and solutions. Identify medication concentrations and demonstrate mixing 1/2 and 1/2 mixtures, recapping syringes, and loading bulb syringes.
Identify break in sterile technique and demonstrate correcting contamination errors.
Identify basic instruments by type, function and name, and will demonstrate care, handling, and assembly of instruments.
Demonstrate loading and passing suture for right- and left-handed surgeons.

Is this course part of a transfer pathway: Yes No

*If yes, please list the competencies below

Revised Date: 10/13/2023